



PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM
Search		Protein	for		Go		Clear
Limits		Preview/Index		History		Clipboard	
Display	default	Show	20	Send to	File	Get Subsequence	

☐ 1: P20905. 5-hydroxytryptami...[gi:112805]

BLink, Domains, Links

LOCUS P20905 564 aa linear INV 15-SEP-2003

DEFINITION 5-hydroxytryptamine receptor 1 (5-HT receptor) (Serotonin receptor).

ACCESSION P20905

VERSION P20905 GI:112805

DBSOURCE swissprot: locus 5HT1_DROME, accession P20905; class: standard. extra accessions: Q9VA21, created: Feb 1, 1991. sequence updated: Feb 1, 1991. annotation updated: Sep 15, 2003. xrefs: gi: 156724, gi: 156725, gi: 23172738, gi: 7302000 xrefs (non-sequence databases): FlyBaseFBgn0004573, InterProIPR000276, InterProIPR007455, PfamPF00001, PfamPF04360, PRINTSPR00237, PROSITEPS00237, PROSITEPS50262

KEYWORDS G-protein coupled receptor; Transmembrane; Glycoprotein; Repeat.

SOURCE Drosophila melanogaster (fruit fly)

ORGANISM Drosophila melanogaster Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.

REFERENCE 1 (residues 1 to 564)

AUTHORS Witz, P., Amlaiky, N., Plassat, J.L., Maroteaux, L., Borrelli, E. and Hen, R.

TITLE Cloning and characterization of a Drosophila serotonin receptor that activates adenylate cyclase

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 87 (22), 8940-8944 (1990)

MEDLINE 91062395

PUBMED 2174167

REMARK SEQUENCE FROM N.A. STRAIN=Oregon-R; TISSUE=Head

REFERENCE 2 (residues 1 to 564)

AUTHORS Adams, M.D., Celniker, S.E., Holt, R.A., Evans, C.A., Gocayne, J.D., Amanatides, P.G., Scherer, S.E., Li, P.W., Hoskins, R.A., Galle, R.F., George, R.A., Lewis, S.E., Richards, S., Ashburner, M., Henderson, S.N., Sutton, G.G., Wortman, J.R., Yandell, M.D., Zhang, Q., Chen, L.X., Brandon, R.C., Rogers, Y.-H.C., Blazej, R.G., Champe, M., Pfeiffer, B.D., Wan, K.H., Doyle, C., Baxter, E.G., Helt, G., Nelson, C.R., Miklos, G.L.G., Abril, J.F., Agbayani, A., An, H.-J., Andrews-Pfannkoch, C., Baldwin, D., Ballew, R.M., Basu, A., Baxendale, J., Bayraktaroglu, L., Beasley, E.M., Beeson, K.Y., Benos, P.V., Berman, B.P., Bhandari, D., Bolshakov, S., Borkova, D., Botchan, M.R., Bouck, J., Brokstein, P., Brottier, P., Burtis, K.C., Busam, D.A., Butler, H., Cadieu, E., Center, A., Chandra, I., Cherry, J.M., Cawley, S., Dahlke, C., Davenport, L.B., Davies, P., de Pablos, B., Delcher, A., Deng, Z., Mays, A.D., Dew, I., Dietz, S.M., Dodson, K., Doup, L.E., Downes, M., Dugan-Rocha, S., Dunkov, B.C., Dunn, P., Durbin, K.J., Evangelista, C.C., Ferraz, C., Ferriera, S., Fleischmann, W., Fosler, C., Gabrielian, A.E., Garg, N.S., Gelbart, W.M., Glasser, K., Glodek, A., Gong, F., Gorrell, J.H., Gu, Z., Guan, P., Harris, M., Harris, N.L., Harvey, D., Heiman, T.J.,

Hernandez, J.R., Houck, J., Hostin, D., Houston, K.A., Howland, T.J., Wei, M.-H., Ibegwam, C., Jalali, M., Kalush, F., Karpen, G.H., Ke, Z., Kennison, J.A., Ketchum, K.A., Kimmel, B.E., Kodira, C.D., Kraft, C., Kravitz, S., Kulp, D., Lai, Z., Lasko, P., Lei, Y., Levitsky, A.A., Li, J., Li, Z., Liang, Y., Lin, X., Liu, X., Mattei, B., McIntosh, T.C., McLeod, M.P., McPherson, D., Merkulov, G., Milshina, N.V., Mobarri, C., Morris, J., Moshrefi, A., Mount, S.M., Moy, M., Murphy, B., Murphy, L., Muzny, D.M., Nelson, D.L., Nelson, D.R., Nelson, K.A., Nixon, K., Nusskern, D.R., Pacleb, J.M., Palazzolo, M., Pittman, G.S., Pan, S., Pollard, J., Puri, V., Reese, M.G., Reinert, K., Remington, K., Saunders, R.D.C., Scheeler, F., Shen, H., Shue, B.C., Siden-Kiamos, I., Simpson, M., Skupski, M.P., Smith, T., Spier, E., Spradling, A.C., Stapleton, M., Strong, R., Sun, E., Svirska, R., Tector, C., Turner, R., Venter, E., Wang, A.H., Wang, X., Wang, Z.-Y., Wassarman, D.A., Weinstock, G.M., Weissenbach, J., Williams, S.M., Woodage, T., Worley, K.C., Wu, D., Yang, S., Yao, Q.A., Ye, J., Yeh, R.-F., Zaveri, J.S., Zhan, M., Zhang, G., Zhao, Q., Zheng, L., Zheng, X.H., Zhong, F.N., Zhong, W., Zhou, X., Zhu, S., Zhu, X., Smith, H.O., Gibbs, R.A., Myers, E.W., Rubin, G.M. and Venter, J.C.

TITLE The genome sequence of *Drosophila melanogaster*

JOURNAL Science 287 (5461), 2185-2195 (2000)

MEDLINE 20196006

PUBMED 10731132

REMARK SEQUENCE FROM N.A.

STRAIN=Berkeley

COMMENT

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[FUNCTION] THIS IS ONE OF THE SEVERAL DIFFERENT RECEPTORS FOR 5-HYDROXYTRYPTAMINE (SEROTONIN), A BIOGENIC HORMONE THAT FUNCTIONS AS A NEUROTRANSMITTER, A HORMONE, AND A MITOGEN. THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G PROTEINS WHICH ACTIVATE ADENYLATE CYCLASE.

[SUBCELLULAR LOCATION] Integral membrane protein.

[TISSUE SPECIFICITY] Head.

[SIMILARITY] Belongs to family 1 of G-protein coupled receptors.

FEATURES

source

Location/Qualifiers

1..564

/organism="Drosophila melanogaster"

/db_xref="taxon:7227"

gene

1..564

/gene="5-HT7"

/note="synonyms: 5HT-R1, CG12073"

Protein

1..564

/gene="5-HT7"

/product="5-hydroxytryptamine receptor 1"

Region

29..51

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/region_name="Transmembrane region"

/note="0 (POTENTIAL)."

Region

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/gene="5-HT7"

/region_name="Domain"

/note="9 X 2 AA TANDEM REPEATS OF G-S."

Region

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/gene="5-HT7"

/region_name="Transmembrane region"

/note="1 (POTENTIAL)."

Region

189..198

/gene="5-HT7"

/region_name="Domain"

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301 lgnehedeeg qpictvcqnf ayqiyatlgf fyiplsvmlf vyyqifraar rivleekraq
361 thlqqalngt gspsapqapp lgthelassg ngqrhssvgn tslytstcgg lssgggalag
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541 qygeppsqrq mlgderhgar esfl

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